

Concerning the Question of the "Direct" Action of
X-Rays on Animal Organism, by S. Ye. Manolov, 1 pp.

RUSSIAN, per, Trudy Vses Konfer Med Radiol.
Eksper Med Radiol, Moscow, 1957, .

ABC Tr 3661

Oct 59

Development of the Machine Tool Industry in the GDR,
by E. Hertel, H. Neurosch, 8 pp.

GERMANY, DDR, Maschinenbau, No 9, 1964,
pp 450-457.

JPRS 27613

East Germany

Leon

Jan 65

272,165

Mansard, B. and Rousset, P.
STUDY OF URANIUM MONOCARBIDE SHAPING AND
IRRADIATION. Final rept., 15 Dec 60-15 Dec 61.
[1963] 34p Contract 012-60-5 RDF (3748)FR
Order from OTS or SLA \$3.60 EURAEC-496

Trans. of a rept. from Commissariat à l'Énergie
Atomique, Paris (France) 30 Sep 62.

DESCRIPTORS: *Reactor fuels, *Uranium compounds,
*Carbides, Forging, Sintering, Extrusion,
Radiation effects.

(See also EURAEC-477)

(Nuclear Physics--Nuclear Engineering, TT, v. 10,
no. 12)

63-15846

- I. Mansard, B.
- II. Rousset, P.
- III. EURAEC-496
- IV. European Atomic Energy
Community, Brussels
(Belgium)

Office of Technical Services

Mansard, B. and Rousset, P.
STUDY OF URANIUM MONOCARBIDE SHAPING AND
IRRADIATION. Quarterly rept. no. 2, 15 Mar-
15 Jun 61. [1963] 24p Contract 012-60-5 RDF (3748)
Order from OTS or SLA \$2.60 FURAFEC-125

Trans. of a rept. from Commissariat a l'Energie
Atomique, Paris (France) n. d.

DESCRIPTORS: *Reactor fuels, *Uranium compounds,
*Carbides, Forging, Sintering, Extrusion,
Radiation effects.

(See also FURAFEC-71)

(Nuclear Physics--Nuclear Engineering, TT, v. 10,
no. 12)

63-23320

- I. Mansard, B.
- II. Rousset, P.
- III. FURAFEC-125
- IV. European Atomic Energy
Community, Brussels
(Belgium)

6

Office of Technical Services

Mansard, B. and Rousset, P.
STUDY OF URANIUM (MONO)CARBIDE (SHAPING)
AND IRRADIATION (AND) EXTRUSION SINTERING
OF MIXTURES OF URANIUM-GRAPHITE POWDERS.
Quarterly rept. no. 6 (with appendix) 1 Apr-30 Jun 62.
[1963] 50p
Contract 012-60-5 RDE (3748)
Order from OTS, SLA, or ETC \$4.60 EURAFC-387

Trans. of a rept. from Commissariat à l'Énergie
Atomique, Paris (France) 2 Jul 62.

DESCRIPTORS: *Reactor fuels, *Uranium compounds,
Carbides, Forging, Sintering, Extrusion, Radiation
effects, Mixtures, Graphite, Powder metallurgy.

The study was mainly devoted to the search for the
optimum extrusion conditions: the reduction of the ex-
trusion ratio from 20 to 8, the modification of the pro-
file of the drawing frame and of the shape of the ex-
(Nuclear Physics--Nuclear Engineering, TT, v. 11,
no. 1). (over)

TT-63-15896

- I. Mansard, B.
- II. Rousset, P.
- III. Title: Extrusion ...
- IV. EURAFC-387
- V. European Atomic Energy
Community, Brussels
(Belgium)

Office of Technical Services

TT-63-15828

Mansard, B. and Rousset, P.
STUDY OF URANIUM MONOCARBIDE [SHAPING] AND
IRRADIATION [AND] EXTRUSION SINTERING OF
POWDERED URANIUM-GRAPHITE MIXTURES.
Quarterly rept. no. 15 (with appendix) 1 Jan-31 Mar 62.
[1963] 4Sp 12refs
Contract 012-60-5 RDP (3748)
Order from OTS, SLA, or ETC \$4.60 EURAFC-325

Trans. of a rept. from Commissariat à l'Énergie
Atomique, Paris (France) 20 Apr 62.

DESCRIPTORS: *Reactor fuels, *Uranium compounds,
*Carbides, Forging, Sintering, Extrusion, Radiation
effects, Mixtures, Graphite, Powder metallurgy

Studies were carried out on extruded U-UC density
evolution after heat treatment without stress. The
first rod of natural uranium monocarbide with 4.6% of
(Nuclear Physics--Nuclear Engineering, TT, v. 11,
no. 2) (over)

- I. Mansard, B.
- II. Rousset, P.
- III. Title: Extrusion ...
- IV. EURAFC-325
- V. European Atomic Energy
Community, Brussels
(Belgium)

Office of Technical Services

Navigation and Automation, by Mansfeld, 7 pp. UNCL

GERMAN, per, Nachrichtentechnik, No 11, 1959,
pp 525, 526.

ACSI E-8390
ID 2161160

Sci - Engr
Mar 61

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Narcosis and Oxygen-Deficiency, by G. Mansfield.
GILMAN, per. Archiv fuer Physiologie, Vol 221A,
1909, pp 49-81. 9227409
NATLIC Tr No 1383

Sci - Phys
JUN 60

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W. L. L.

The Noise Factor in an Amplifier Input Stage, by
W. Mansfeld.

GERMAN, per, Nachrichten Technik, Vol V, No 4, 1955,
pp 145-148; Vol V, No 5, 1955, pp 199-204.

TIL Tr 4853

Sci. Physics
Mar 58

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N-1/684 Reimb

Radio Relay System for Transmission of 600 CF Telephone
Channels or One Video Signal, by W. Mansfeld, 15 pp.

GERMANY, per, Nachrichtentechnik, 1963, 5 pp.

✓ JPRS/SPECIAL/DC-10215

Sci - Elec
Jan 64

The Behaviour of Layer Resistors, Capacitors and Inductors, in the Frequency Range 10 to 200 Mc/s, Part II, Capacitors, by W. Mansfeld, 17 pp.

GRUBER, per, Nachrichtentechnik, Vol II, No 6, 1952, pp 185-189.

SLA Tr 1780 Jan. 1957

Sci - Engineering
Apr 1957

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VHF Radio Equipment for the Transmission of Video and
Audio Sound Signals, by W. Mansfeld, 10 pp.

GERMAN, per, Radio und Fernsehen, Vol VII, No 11,
Jun 1958, pp 352-355.

FDD/X-3984

Sci
Jan 60

Directional Radio Sets for the Transmission of Video
and Radio Sound Signals, by W. Munsfeld, 17 pp.

GERMAN, per, Radio und Fernsehen, Vol VII, No 4,
Feb 1958, pp 105-110.

PDD/X-4051
USASIS SC-14/59

Sci
Jan 60

Manshilin, V. V., Manakov, N. Kh. and others.
ENGINEERING DEVELOPMENT OF A NEW FLUIDIZED
CATALYTIC CRACKING SYSTEM. Oct 62 [7]p.
Order from ICB in v. 2, no. 4, \$15.00/year

Trans. of Khim[ia] i Tekh[nologiya] Topliv i Masel
(USSR) 1962 [v. 7] no. 6, p. 41ff.

DESCRIPTORS: *Coke, Decomposition, Towers
(Chemistry), *Catalysts, *Alumina-silica catalysts,
Fluidized solids, *Chemical engineering.

(Engineering--Chemical, TT, v. 9, no. 6)

63-12345

- I. Manshilin, V. V.
- II. Manakov, N. Kh.
- III. International Chemical
Engineering, New York

100010

Office of Technical Services

Biogeochemistry of Germanium, by S. M. Manskaya,
T. V. Drozdova, 9 pp.

RUSSIAN, per, Geokhim, No 5, 1961.

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Nov 62

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Formation of Melanoidines From Chitin, 72
by H. H. Dandanya, T. V. Dandanya, et al.
RISHCHIK, per, Dokl Ak. Nauk SSSR, Vol. XVI,
No 3, 1954, pp 569-572.
PMAA DT 17-5360

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101-0/1
101-0

~~XXXXXXXX~~ Distribution of Copper in Peats and Peat
Soils of the Belorussian SSR, by S. M. Manskaya,
T. V. Droslova, 14 pp.

RUSSIAN, Izv., Geokhim, No 6, ~~1960~~ 1960.

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SPHAGNUMS (Aromaticheskie Soedineniya Kletochnoi
Obolochki Sфаgnovogo Mіha) tr. by V. N. Pavloff. 1961.
8p. 20 refs. NRCC Technical Trans. 992.
Order from NRCC \$0.50 NRCC C-3843

Trans. of Biokhimiya (USSR) 1954, v. 19, no. 3,
p. 332-335.

DESCRIPTORS: *Peat, Cells (Biology), *Organic com-
pounds, *Lignin, Determination, Fluorescence,
Oxidation, Aldehydes, Ultraviolet spectroscopy,
Biochemistry, *Mosses.

(Biological Sciences--Biochemistry, TT, v. 8, no. 1)

62-12446

- I. Title: Sphagnum
- I. Manskaya, S. M.
- II. Bardinskaya, M. S.
- III. NRCC TT-992
- IV. NRCC C-3843
- V. National Research Council
of Canada

209361

Office of Technical Services

Formation of Melanoidines From Chitin, by
S. M. Manshaya, et al.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol XCVI, No 3,
1954, pp 569-572.
NASA TT F-9330

Sci-11/21
Jun 68

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Fixation De L'Uranium Par Les Acides Humiques Et
Par Les Melanoidines, by S. M. Manskaya, T. V.
Drozdova, M. P. Enel'yanova,

RUSSIAN TO FRENCH, per, Geokhimiya, No 4, 1956,
pp 10-23.

AEC CEA-Tr-R-766

Sci - Min/Metals

Apr 60

Quinic and Shikimic Acids in Plants, by S. M.
Marskaya, L. A. Kodina, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXIII,
No 4, 1958, pp 733-.

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Sci. - Biol, Chem

Jun 59

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Соперник Писаренко в: Восточные Труды 62
Соперник, в: В. С. М. Канская, Т. В. Исидорова, М. П.
Сидоров, 7 стр.

RUSSIAN, per. Tekhnovodeniye, No 6, 1998, pp 52-53.

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S. M. MANSKAYA, T. V. DROZDOVA, M. P. EMEL'YANOVA

Fixation of uranium by humic acids and by melanoidins

Fixation de l'uranium par les acides humiques et par les
mélanoidines

Geokhimiya No. 4, 10-23 (1956)

CEA-tr-R-766. - French

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Isolation of Quinic and Shikimic Acids from *Plasmodium*
and Their Determination, by S. M. Manskaya,
L. A. Eddins, 5 PP.

RUSSIAN, *Zhurn Prikl Khim*, Vol XXXII, No 12,
1959, pp 2711-2715.

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133, 182

Binding of Uranium by Amino Acids and by
Melanoidines, by S. M. Menskaya, T. V. Drozdova,
and M. P. Kmelianova, 42 pp.

RUSSIAN, per, Geokhimiia, No 4, 1956, p 10-23.

SLA R 1661

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Jul 58

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~~RS~~ Participation of Oxidases in Formation
of Lignin by S. N. ~~Shagala~~, 5 pp,

Manskaya,

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,
Vol LXII, No 3, 1948, pp 369-372.

Sci Tr Center
RT-1833

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Scientific - Chemistry

Mar 55 CTS

Origin of Various Plant Groups, by B. M. Menskaya,

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No 10, 1954, pp 98-115.

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RJ-369

Sci - Biology
Sep 56 CTE/dex

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Contents and Balancing of the Personal Incomes of
LPG Members, by Klaus Manske, 7 pp.

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Aug 1962, pp 10-12.

JPRS 15816

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Oct 62

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Propagation of Detonations and Deflagrations in
Gaseous Mixtures, by H. Manson, 166 pp.

FRENCH, per, CIERA, Inst Franc Petroles Rep,
Div 1, 200 pp, 1947.

SIA 57-2361

Jul 58

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Propagation of Detonation and Combustion in
Gaseous Mixtures, by N. Manson.

ITALIAN, per, ~~ONRA~~, No 1, 1945.

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Sci - Chemistry

Aug 1956

36, 915

MANSON, N.

Thermodynamic Calculation of Flame-Propagation
Velocities.

COMPTES RENDUS, vol 226, 1948, pp 230-2; 850 words.

Brutcher No 2621, \$1.90

Formation and Speed of Spherical Explosive Waves
in Gaseous Mixtures, 21 pp. by N. Manson.

FRANCK, per, Revue de l'Institute Francais Petrole,
Vol IX, 1954, pp 133-143. CIA 649082

FDD/X-3614

Sci - Chem

Jul 59

Monro, N.
 FLAMMATION AND SPEED OF SPHERICAL FLAME
 PRESSURE WAVES IN GASEOUS MIXTURES. July 59
 [22] p. 1614. Palatiny Arsenal Trans. no. 15.
 Order from GPO or SLA \$12.00 59-17472

Trans. Office de l'Enseignement Supérieur [Univ. de Paris]
 [in Annales des Combustibles Liquides] (France) 1954,
 vol. 9, pp. 135-143.

SUBJECT TERMS: *Explosions, *Gases, Oxygen, Acety-
 lene, Propane, Ethylene, Methane, Natural gas,
 Propagation, Ignition, Detonation, *Detonation waves,
 Propagation, Velocity, Combustion.

Experiments were carried out on mixtures of oxygen
 and various gases (acetylene, propane, gas with
 ethylene and methane base, natural gas from St. Marcet
 (Chetigny-Thyral, TT, v. 7, no. 6) (over)

59-17472

I. Monro, N.
 B. Palatiny.
 III. Joint Publications Research
 Service, New York

197011

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Office of Technical Services

by N. Manson.

FRENCH, per, Rev I. F. P. Vol IX, No 4, Apr 1954.
pp 133-143.

*JPRS (for Picatinny Arsenal)

24/4/59

Estimation of the Detonation Pressure of Condensed
Explosives., by Y. Pujol, H. Manson.

FRANCE, par, Comptes Rendus Academie des Sciences,

Vol. 254, No. 18, 1962, pp 3113-3175.

OB/39/AET 575

N. MANSON

Sci -
July 1967

334-686

THE INFORMATION SERVICE OF THE SECRETARIAT OF
STATE FOR EXTERNAL AFFAIRS AND INFORMATION, BY
ALL MEMBERS, 3 PP.

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PP 2.

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NOV 63

200,172

(DC-4783)

Vocational Training of a Transport Company, by
Muhammad Atiyyah Mansur, 11 pp.

ARABIC, per, Majallat Silah Khidmat al-Jaysh,
Vol VI, No 11, Jun 1978, pp 8-18.

JPRS 6285

HE/A - UAR

MIL

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(NY-3000)

Prospects for Developing the USSR Forging
Industry, by A. M. Mansurov, 19 pp.

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JPRS 13421

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Apr 62

The Effect of Oxygen Deficiency and Prolonged
Radial Accelerations on the Organisms of
Animals, by M. A. Agadzhanov, A. R. Mensurov,
9 pp.

RUSSIAN, per, Byul Eksp. Biol. i Medit,
Vol. LIII, No 4, 1962, pp 42-45. 9667366

FTD-TP-62-823

Sci - Med
Jan 63

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THE BIO EFFECT OF PURE OXYGEN INHALATION OF THE
LUNGS AND HEART OF WHITE RATS, BY
I. S. BALANDOVSKIY, A. R. NANSUROV, ET AL,
8 PP.

RUSSIAN, PER, BYUL EKSPER BIOL I MED,
VOL LIII, NO 2, 1962, PP 43-47. 9665785

FTD-TT-62-772

SCI - MED
JUL 62

204,469

THE EFFECT OF OXYGEN DEFICIENCY AND PROLONGED
RADIAL ACCELERATION ON AN ANIMAL ORGANISM, BY

N. A. AGADZHANYAN, A. B. MANIROV, 17 PP.

RUSSIAN, PER, BYULLETEN' EKSPERIMENTAL'NOY BIOLOGII
I MEDITSINY, VOL LIII, NO 4, 1962, PP 42-46.

JPRS 15346

SCI - MED

OCT 62

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(NY-7042)

THE EFFECT OF EXPLOSIVE DECOMPRESSION ON THE
ORGANISM, BY. I. VAIKOVICH, A. R. KOSHEV, AND
N. A. AGABEKYAN, 9 PP.

RUSSIAN, PER. B IZ AK NAUK SSSR, SER BIOLOG, NO 1,
1962, PP 86-95).

JPRS 13562

SCI - MED
MAY 62

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Decompression Tissue Emphysema and
Methods of Preventing It, by N. A.
Agadzhanian, M. I. Vakar, A. R.
Mensurov, A. S. Tsivilashvili

RUSSIAN, No per, Voenno Med Zhur,
No 12, Moscow, Dec 1958, pp 45-48

US JPRS 1297-N

Sci - Med
Mar 59

81,946

Two Problems in Acceleration: Cumulative
Effect and X-ray Examinations, by S. A. Gozulov,
A. R. Mansurov, 10 pp.

RUSSIAN, no per, Voenno-Meditsinskiy Zhurnal,
No 10, 1956, pp 55-58; pp 59-64, Encl to
IR 1600-57, APOIN-1A1.

AF 1119942

Sci-med
aug 57

51, 855

A Sufficient Criterion for the Stability of Nonlinear
Automatic Control Systems, by K. Mansurov, 5 pp.

RUSSIAN, per, Izvestiya Akademii Nauk KP Kazakhskoy
SSR, No 10 (14), 1962, pp 56-59.

JPRS 15705

Sci - Phys

Oct 62

~~215,751~~
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Mansurov, Kh. Kh.

AN ANALYSIS OF 625 CASES OF NEEDLE LIVER BIOPSY. [1962] [11] p. FASEB manuscript no. S 88-2.

Order from ODS or SIA \$1.60 63-15987

Trans. of Terapevticheski Arkhiv (USSR) 1962, v. 34, no. 7, p. 72-78.

DESCRIPTORS: Liver, Diagnosis, Diseases, Medical examination, *Histological techniques, *Liver function tests, Tissues (Biology), *Hepatitis (Nonviral).

The indications, contraindications, possible complication, and the diagnostic value of liver biopsies taken by means of an aspirating needle are evaluated. The accuracy of this procedure in differential diagnosis of liver pathology in 625 cases was analyzed. The contraindication for this procedure are listed under 10 (Biological Sciences--Pathology, IT, v. 10, no. 6)
(over)

63-15987

- I. Mansurov, Kh. Kh.
- II. FASEB S-88-2
- III. Federation of American Societies for Experimental Biology, Washington, D. C.
- IV. Scripta Technica, Inc., Washington, D. C.

63-15987

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Basic and Disputed Problems in the Theory
of the So-called Collagen Diseases, by Kh.
Kh. Mansurov, 8 pp.

RUSSEAN, per, Zdravookhraneniye Tadzhik,
No 1(45), Jan/Feb 1962, pp 3-9.

JPRS 13799

Sol. Med
Nov 62

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The Pharmacology of Stachydrine Hydrochloride,
by I. E. Akopov, V. A. Kononova, M. M. Mansurov,
2 pp
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Consultants Bureau

Sci - Med

Apr 59

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Darwin's Theory of Evolution and Development of
the Analysers, by N. S. Maneurow, 5 pp.

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Sechenova, Vol XLVI, No 1, 1960, pp 123-126.

Pergamon Press

Sci

Aug 60

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(NY-3104).

The American Way of Life Before the Court of
Materialist Psychology and Psychiatry, by S. A.
Petrushkevich, N. S. Mensurov, 13 pp.

RUSSIAN, per, Voprosy Filosofii, No 4, 1959,
pp 156-161.

JPRS-L-1085-R

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Sci - Med

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(FDD 25776)

The Failure of Bourgeois Psychology, by N. S.
Mansurov, 8 pp

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Moscow, 1955, pp 43-45.

CIA/FDD/U-7336

USSR
Sci - Medicine, psychology
(CIS 72/Sep 55)

28,401

Secular Variations of the Geomagnetic Field of
the Geomagnetic Field of the East Antarctic by
S. M. Mamonov, 6pp

RUSSIAN, in, Geomagnitnyye Vozmushcheniya, Sbornik
Statist. i teoret. program, Section, III, No 4, 1960 Academy
of Sciences, USSR. 9216579

RUSSIAN, in, Geomagnitnyye Vozmushcheniya, Sbornik
Statist. i teoret. program, Section, III, No 4, 1960 Academy
of Sciences, USSR. 9216579
HAGA 51 37 F-105

Sci-Birth Sci & Astron
Jan 64

246,196

Some Scientific Results of the Work of the Geo-
physical Party, Soviet Antarctic Expedition,
by S. M. Mansurov, 4 pp.

RUSSIAN, per, Sov Antark Eksped (Arkti i
Antarktiki In-ta) Vtor Krot Eksped 1956-1958,
Nauch Resultaty, Vol IX, 1960, pp 6-9. 9077595

DSIR, DRB Canada T 353 R

Sci - Geophys

18 Jul 61

160,069

Mansurov, S. M.
SECULAR VARIATIONS OF THE GEOMAGNETIC
FIELD OF THE EAST ANTARCTIC. Dec 63, 6p 6refs
N64-11664.
Order from OTS \$1.75 in NASA-TT-P-105 (p. 61-66)

Trans. from [Zemnoi Magnetizm i Zemnye Toki:
Sbornik State] (USSR) 1960, no. 4. (Abstract available)

DESCRIPTORS: *Terrestrial magnetism, *Magnetic
fields, *Antarctic regions, Periodic variations,
Measurement

The secular geomagnetic variations for the 1957-1959
period were drawn using the data of the USSR Antarctic
magnetic observation. The attention was drawn to the
great amplitude of the long-period variation in H-com-
ponent, superimposed on general secular variations.
The change of Z-secular variation signs at Mirmy and
Vostok observatories were noticed. (Author)
(Earth Sciences--Meteorology, TT, v. 11, no. 6)

TT-64-11502 (p. 61-66)

- I. Mansurov, S. M.
- II. NASA-TT-P-105 (p. 61-66)
- III. N64-11664
- IV. National Aeronautics and
Space Administration,
Washington, D. C.

11.73750

Office of Technical Services

Causes of Isolation of Geomagnetic
Variations in the Muray Region, by
S. M. Kabanov.

RUSSIAN, For, Informats Byull Sovet
Astricheskaya Ekspeditsiya, No 2, 1958.
PP 37-42.

Univ of Wisconsin
(NSP)

Sci - Geophys
Apr 3 60
Apr 60

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Secular Variations of the Geomagnetic Field
of the East Antarctic, by S.M. Mansurov.
RUSSIAN, per, IGY program 1960 sect, V 1 3, No 4,
1963
NLL/8731.9 105

S. M. MANSUROV

Sci -
Jul 67

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Photographic Study of Meteors by the Moscow
Section of the All-Union Astronomical Geodetic
Society in 1949-1950, by H. I. Grishin,
K. A. Mansurova, 15 pp.

Full tr

RUSSIAN, par, Byul' Vses Astron-Geodes Obshch,
No 10(17), Moscow, 1951, pp 19-27.

ATIC-F-TS-8837/III

Scientific - Astronomy
CRS/Dex
Aug 56

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Mansurova, I. D.
MICROCHEMICAL INVESTIGATION OF CERTAIN
ENZYMES IN LIVER PUNCTURE SPECIMENS FROM
PATIENTS WITH EPIDEMIC HEPATITIS. [1963] (8p)
19 refs FASEB manuscript no. S370-2.
Order from OTS, SLA, or ETC \$1.10 TT-64-13405

Trans. of Laboratornoe Delo (USSR) 1962, v. 8,
no. 9, p. 26-29.

DESCRIPTORS: Microanalysis, *Enzymes, Liver,
*Diagnostic agents, *Hepatitis, *Biochemistry.

(i)
(Biological Sciences--Pathology, TT, v. 11, no. 8)

TT-64-13405

- I. Mansurova, I. D.
- II. FASEB-S-370-2
- III. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Manaurova, K. S.
SYSTEMS OF DECLINATIONS OBTAINED FROM
LATITUDE OBSERVATIONS. 10 Oct 63, 13p 13. (FTD-
TT-62-959 (p. 179-191)).
Order from OTS, SLA, or ETC \$28.50 in TT-64-13176
(p. 179-191)

Unedited rough draft trans. from mono. Astronomi-
cheskaja Konferentsiya SSSR (no. 14) Kiev,
27-30 May 58. Tudy, Moscow, 1960. (Abstract
available)

DESCRIPTORS: *Astronomy, *Stars, Measurement,
Errors

Observations with the zenith telescope yield a good
declination system with respect to $\Delta\delta_c$. Observations
according to a program consisting of a large number of
pairs permitted reliable control of the system of the
initial catalog. Similar observations may be set up to
(Astronomy, TT, v. 11, no. 5) (over)

TT-64-13176 (p. 179-191)

I. Manaurova, K. S.

II. FTD-TT-62-959
(p. 179-191)

III. Foreign Tech. Div.,
Air Force Systems
Command, Wright-
Patterson AFB, Ohio

Office of Technical Services

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DESCRIPTORS: *Pyrolysis, Gases, *Hydrocarbons,
Decomposition, Temperature, Velocity, Impurities.

The decomposition was carried out and its dependence
upon the temperature, velocity of gas and the size of
a granular filler in the oven determined. Hydrogen
produced from natural gas has been contaminated
with 0.7 per cent CH_4 . It was impossible to reach a
higher degree of purity at temperatures up to 1700° .
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DESCRIPTORS: *Arc welding, *Electrodes, Thermionic
emission, Gas discharges, Polarization, Tungsten,
Argon, Helium, Steel.

An attempt has been made to apply the known funda-
mental properties of the physical arc to the welding arc.
In accordance with the heating of the anode, three
different types of arcs are formed which in practical
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and type of current used. A comparison is made between
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Geographic; Economic

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